i>clicker
Session 6 with Solutions
Question 1

If we insert 9 in the following BST,

In which cell with it go?

A. In cell at index 3
B. In cell at index 12
C. In cell at index 14
D. Can’t say!

E. None of the above

The answer is cell at index 13 -> 2 * index of parent (6) + 1
Question 2

Consider the following BST:

if the element 24 is stored at index 29, where is its grand-parent?

A. In cell at index 13

B. In cell at index 6

C. In cell at index 14 – this would be its parent!

D. Can’t say!

E. None of the above
Question 3

What could be a disadvantage of using an array to implement a BST ADT?

A. Array capacity too large hence wasting memory
B. Array is a bounded data structure
C. Deletion produces gaps in array or indices may need to be reset
D. All of the above
E. None of the above